

ABSTRACT

The present invention provides a platelet-rich plasma with high activities in an easy and economical manner.

The platelet-rich plasma is obtained by aggregating and precipitating erythrocytes from collected whole blood selectively and facilitatively without employing centrifugation. For example, the plasma is obtained by the addition of a polymer having a residue of an organic phosphate compound. Specifically, the polymer having a residue of an organic phosphate compound can be added to whole blood and allowed to stand for a specific time, thereby to selectively and facilitatively aggregate and precipitate erythrocytes to give a supernatant. The supernatant contains much platelets which exist in their extremely intact state similar as in a living body and simultaneously provides a platelet-rich plasma with high activity comprising much plasma proteins such as fibrinogen and leukocytes.